

CLAIMS

1. Electrical switch unit for an electric tool, wherein
5 the switch unit comprises heat-dissipating components,
characterized in that the switch unit comprises a fan which
is adapted to cool the heat-dissipating components.

2. Switch unit as claimed in claim 1, characterized in
that the fan is adapted to generate an airflow moving along
10 the heat-dissipating components.

3. Switch unit as claimed in claim 1 or 2, characterized
in that at least some of the heat-dissipating components is
thermally coupled to a cooling body, and that the fan is
adapted to cool the cooling body.

15 4. Switch unit as claimed in claim 3, characterized in
that the fan is adapted to generate an airflow moving along
the heat-dissipating components.

5. Switch unit as claimed in any of the foregoing
claims, characterized by a temperature sensor for controlling
20 the fan subject to the temperature of the heat-dissipating
components sensed by the temperature sensor.

6. Switch unit as claimed in any of the foregoing
claims, characterized by means for sending to the fan a
signal representing power.

25 7. Switch unit as claimed in any of the foregoing
claims, characterized in that the fan is placed in a wall of
the housing of the switch unit.

8. Switch unit as claimed in any of the foregoing
claims, characterized in that the fan is placed upstream of
30 the components for cooling in the airflow.

9. Switch unit as claimed in claim 8, characterized in
that a suction opening for air is arranged upstream of the
fan in the housing of the tool.

10. Switch unit as claimed in claim 8 or 9, characterized in that the fan is adapted to generate an airflow extending through the motor of the tool.

11. Switch unit as claimed in claim 10, characterized in
5 that the fan is adapted to generate a first and a second parallel airflow, the first of which cools the heat-dissipating components and the second of which is guided through the motor.

12. Electric tool according to any of the foregoing
10 claims, characterized by a switch unit as claimed in any of the foregoing claims.